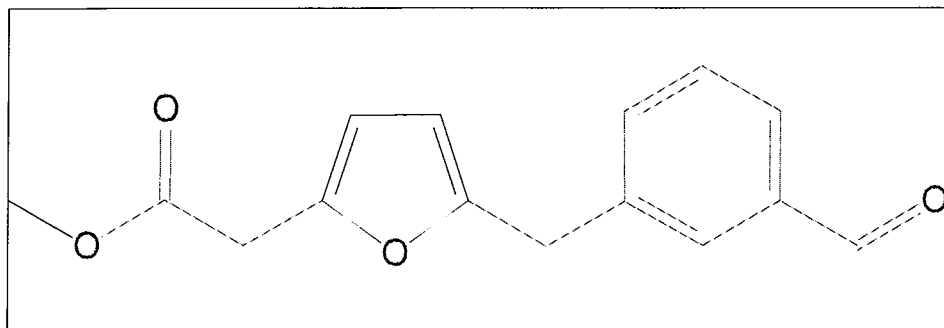


# EXHIBIT D



## Substance Identification

Beilstein Registry Number	<b>7928408</b>
Chemical Name	[5-(3-formyl-benzyl)-furan-2-yl]-acetic acid methyl ester
Autoname	[5-(3-formyl-benzyl)-furan-2-yl]-acetic acid methyl ester
Molecular Formula	C <sub>15</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Weight	258.27
Lawson Number	19967, 289
Type of Substance	heterocyclic
Constitution ID	6756493
Tautomer ID	7497273
Beilstein Reference	6-18

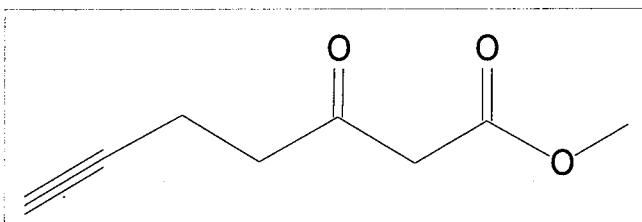
## Field Availability List 1-2

Code	Field Name	Occ.
<u><b>RX</b></u>	Reaction	1
<u><b>CNR</b></u>	Reference	1

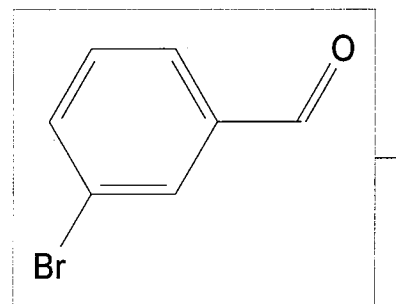
## Reaction

Reaction ID	<b>4864345</b>
Reactant BRN	<b>5497712</b> 3-oxo-hept-6-ynoic acid methyl ester <b>1634534</b> 3-bromo-benzaldehyde
Product BRN	<b>7928408</b> [5-(3-formyl-benzyl)-furan-2-yl]-acetic acid methyl ester
No. of Reaction Details	1
Reaction Classification	Preparation
Yield	43 percent (BRN=7928408)
Reagent	K <sub>2</sub> CO <sub>3</sub> , Pd(PPh <sub>3</sub> ) <sub>4</sub>
Solvent	dimethylformamide
Time	5.0 hour(s)
Temperature	100 C
Find similar reactions	<a href="#"><u><b>click here</b></u></a>

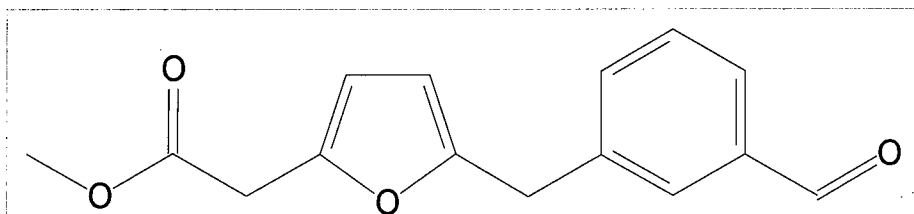
Ref. 1	<b>6089565</b> ; Journal; Cacchi, Sandro; Fabrizi, Giancarlo; Moro, Leonardo; JOCEAH; J. Org. Chem.; EN; 62; 16; 1997; 5327-5332.
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Reactant 1



Reactant 2



Product 1

## Reference

**6089565**; Journal; Cacchi, Sandro; Fabrizi, Giancarlo; Moro, Leonardo; JOCEAH; J. Org. Chem.; EN; 62; 16; 1997; 5327-5332.